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## FIELD MAINTENANCE PRINT SET

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RB730

## Field Maintenance Print Set

# Digital Equipment Corporation

PRINT SET ORDER  
NO. MPO1278

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## UNIT VARIATIONS

REVISIONS	CHANGE NO.	REV.	11730 DISK CONTROLLER					
			USED ON OPTION/MODEL	DRN.	DATE	TITLE		
			A.ROCHA	16APR82	11730 DISK CONTROLLER			
	11730		CHK'D.	DATE				
			<i>APKorin</i>	20 APR 82				
			PROJ. ENG.	DATE				
			<i>DMhandley</i>	20 APR 82	SIZE	CODE	NUMBER	REV
			PROD.	DATE	B	DD	RB730-0	A
			<i>SA.Castiglione</i>	21 APR 82	DIST.			
SHEET 1 OF 2								

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL

digital

**TITLE**

11730 DISK CONTROLLER

SHEET 2 OF 2

CODE	NUMBER
DD	RB730-0

REV  
A

AUTOMATED BY PRTLST.33P(44)

## PARTS LIST

SHEET A1 OF A1

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
				00	
1 1	B-DD-MS398-0	M8388-00	RB730 IDC (INTEGRATED DISK CONTR	1	
2 2	A-PL-70129381-D-0	7012938-00	70-12938 UNIT SELECT PLUG KIT	1	
*****				UNDERQING CHANGE	*****

REVISION HISTORY			BASIC PART NO: RB730	DRN:	R.J. RILEY	DATE: 13-APR-82	D I G I T A L					
ENG!	ECO NUMBER	REV	SECTION A OF A					TITLE	PARTS LIST			
	INITIAL	A	SECTION. VARIATION INDEX	CHK'D: R.J. RILEY				DATE: 13-APR-82	11730 DISK CONTROLLER			
			[A] 00	DES.ENG.: D. LANDRÉ <sup>1</sup> B. MILLER				DATE: 13-APR-82				
			[B]	RESP.ENG.: D. LANDRÉ <sup>1</sup> B. MILLER				DATE: 13-APR-82	DOCUMENT NUMBER			
			[C]	S. CASTIGLIONE <sup>2</sup>				DATE:	K	PL	RB730-0-DBP	A
			[D]	MFG.ENG.: ??????????????								
			[E]	ASSEMBLY NUMBER:				TQP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
			[F]	#B-DD-RB730-0					Z4258A.PLS		3	

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SIZE B CODE DD NUMBER M8388 - 0 REV. A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
			MODULE REVISION	A
B-DD-M8388 - 0	1		IDC	A
D-U-A-M8388-0-0	2		IDC	A
D-EC-5014452-0-0	3		ETCH CUT DRAWING	A
D-MD-5014452-0-0	5		DRILL & ETCH DRAWING	A
KPL-M8388-0-DBP	3		PL DATA BASE	A
KPG-M8388-0-DBC			PC DATA BASE	B
KCS-M8388-0-DBS			CS DATA BASE	A
DCS-M8388-0-IDCA	1	5014452	ETCHED BOARD	B
D-CS-M8388-0-IDCB	1	*	RL02 DATA SEPARATOR	A
D-CS-M8388-0-IDCC	1	*	DSR, ADRS CNTR, R00 STATUS	A
D-CS-M8388-0-IDCD	1	*	IDCE PLOAD OUTREG BO L	A
D-CS-M8388-0-IDCE	1	*	RL02 MEM ENCODING	A
D-CS-M8388-0-IDCF	1	*	PORTBUS INTERFACE	A
D-CS-M8388-0-IDCH	1	*	DAR, ECC, XCVRS	A
D-CS-M8388-0-IDCI	1	*	CONTROL STATUS REGISTER	A
D-CS-M8388-0-IDCJ	1	*	CLOCK SYNC & INTERRUPT	A
D-CS-M8388-0-IDCK	1	*	MICROSEQUENCER	A
D-CS-M8388-0-IDCL	1	*	RL02, R90 DRIVERS	A
D-CS-M8388-0-IDCM	1	*	RL02, R80 RECEIVERS	A
D-CS-M8388-0-IDCN	1	*	DISK CABLE CONNECTORS	A
			3V DIVIDER NETWORK	
D-CS-M8388-0-IDCF	1	*	IDC BYPASS FILTER CAPS	A
D-BD-M8388-0-0	1	*	BLOCK DIAGRAM	A

NOTES: \* CONTROL SOURCE IS DATA BASE  
NO CONTROLLED PAPER ORGINALS EXIST

REVISIONS  
CHG NO.  
DATE

USED ON OPTION/MODEL  
NEBULA

DRN.

*8-10-81*

TITLE

IDC

CHK'D

*8-10-81*

ENG.

*D. Miller*

DML

*11/13/81*

PROD.

*D. B. W. Goff*

*11/13/81*

SIZE

CODE

NUMBER

M8388 - 0

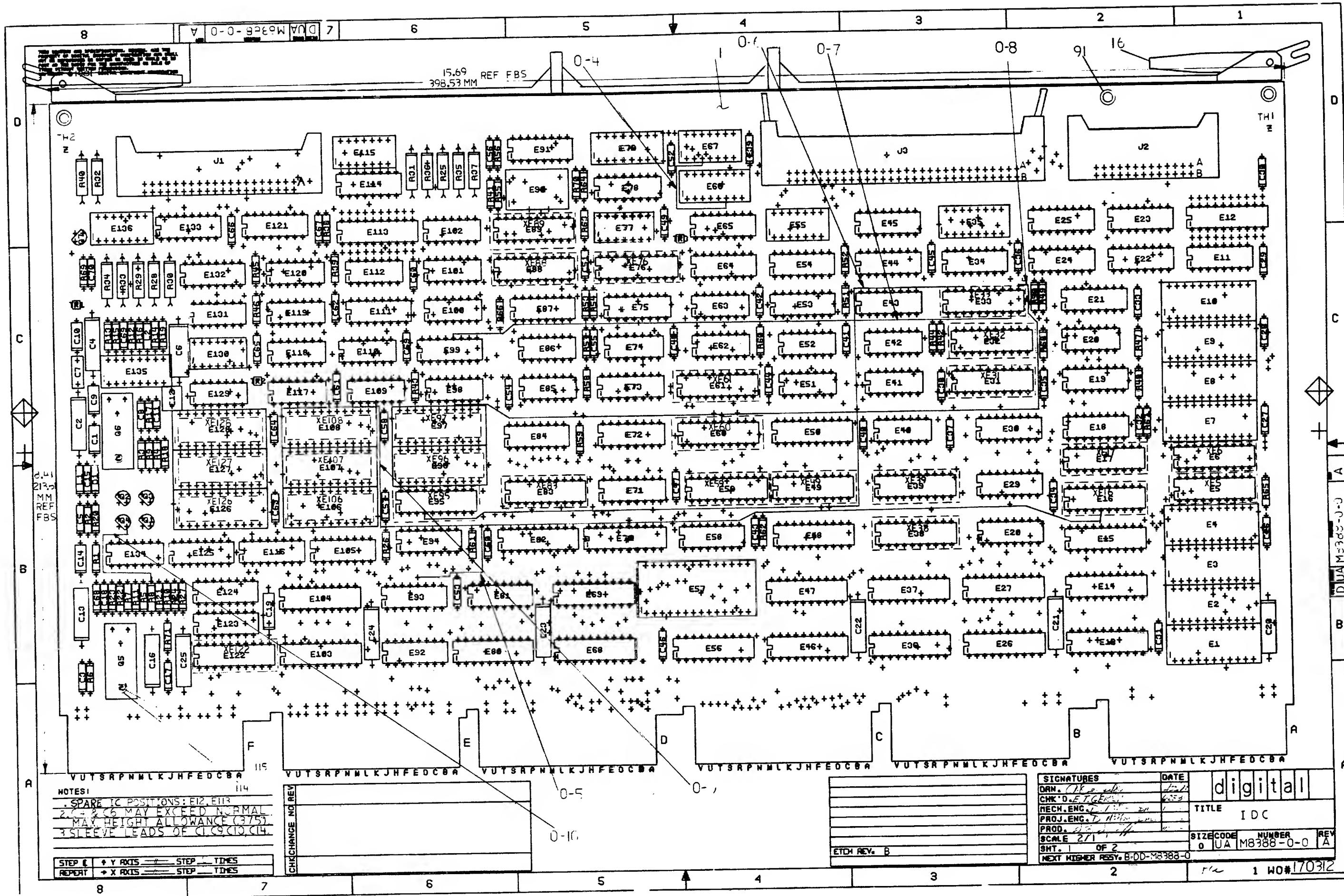
REV.

A

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digital



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D

D

## REWORK INSTRUCTIONS:

WIRE ADDS SIDE 1

- 0-4 FROM E67-03 TO E66-06
- 0-5 FROM PTH NEAR E93-12 TO PTH BETWEEN R61 & C50
- 0-6 FROM E95-04 TO E33-18
- 0-7 FROM E33-09 TO E99-12
- 0-8 FROM E97-15 TO E33-11
- 0-9 FROM E109-02 TO E16-05
- 0-10 FROM COLLECTOR OF Q4 TO TOP OF R8

C

C

B

B

A

A

REVISION HISTORY		
DATE	ECO NUMBER	REV.
8/2/1981		

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IDC

DOCUMENT NUMBER		
ECO CODE	NUMBER	REV.
DUA	M8388-0-0	A

SCALE NONE SHEET 2 OF 2

AUTOMATED BY PRTLST.3P(44)

## PARTS LIST

SHEET A1 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	0-MD-5014452-0-0	5014452-00	1	
2	2		1600022-00	1	C7
3	3		1001776-00	1	C19
4	4		1010546-00	1	C6
5	5		1012784-00	1	C3, C8, C17, C18, C25-C70
6	6		1013456-02	1	C11
7	7		1013456-08	1	C5, C15
8	8		1013456-11	1	C1, C9, C10, C14
9	9		1015628-00	1	C12
10	10		1017472-00	10	C2, C4, C13, C16, C20-C25
11	11		1111577-00	1	D1
12	12		1209941-02	1	J1
13	13		1209941-03	1	J2
14	14		1215006-04	19	XE33, XE49, XE75, XE5, XE6, XE15, XE60, XE51, XE39, XE83, XE55, XE17, XE32, XE83, XE39, XE59, XE122, XE39, XE31
				CONT	
				CONT	
				CONT	
15	105		1215006-05	8	XE95, XE97, XE105-XE108, J3
16	15		1216932-04	1	
17	16		1216933-02	1	E55, E57
18	17		1300005-02	2	E123
19	18		1300005-04	1	E115, E135
20	18		1300005-05	2	E35, E56, E79
21	19		1300005-09	1	R3, R4, R9, R59-R71
22	21		1300229-00	15	R25, R45, R48, R50, R52, R54, R55, R59, R44
23	22		1300235-00	9	R18, R23
				CONT	R24, R38
24	23		1300316-00	2	
25	24		1300365-00	2	

REVISION HISTORY	BASIC PART NO: M8388		DRN:	J CASY	DATE: 17-NOV-81	D	I	G	I	T	A	L
ENG: ECO NUMBER	REV: SECTION A OF A		CHK'D:	E.T.GERRY	DATE: 17-NOV-81	TITLE	PARTS LIST					
INITIAL	A		SECTION, VARIATION INDEX	CO.	ICD							
R.D. M8388-TW001	B		[A]	[B]	DES. ENG: DAVE MILLER	DATE: 17-NOV-81						
	[C]		[D]	[E]	RESP. ENG.: DAVE MILLER	DATE: 17-NOV-91	DOCUMENT NUMBER					
	[F]		[G]	[H]	MFG. ENG.: W WYCKOFF	DATE: 17-NOV-91	SIZE: CODE: NUMBER	REV				
	[I]		[J]	[K]	ASSEMBLY NUMBER: D-UA-M8388-0-0	DATE: 17-NOV-91	TOP DOCUMENT NUMBER: Z129CB.PLS	14	FILE NAME:	EDIT		

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
25	25	1300398-00	1.80 K .25 W 5.0 X CC	1	R20
27	27	1300447-00	4.70 K .25 W 5.0 X CC	1	R12, R39
28	28	1301320-00	1.20 K .25 W 5.0 X CC	1	R16
29	29	1301424-00	680.0 .25 W 5.0 X CC	7	R46, R47, R48, R51, R53, R55, R57
30	30	1301791-00	82.0 .50 W 5.0 X CC	12	R55, R57-737, R70
31	31	1302091-00	330.0 K .25 W 5.0 X CC	1	R27
32	32	1302612-00	1.78 K .25 W 1.0 X RN55D-F10	1	R14
33	33	1302871-00	1.21 K .25 W 1.0 X RN55D-F10	1	R7, R22
34	34	1302872-00	581.0 .25 W 1.0 X RN55D-F10	1	R1, R2
35	35	1302874-00	147.0 .25 W 1.0 X RN55D-F10	1	R15
36	36	1302941-00	14.70 K .25 W 1.0 X RN55D-F10	1	R11
37	37	1302956-00	195.0 .25 W 1.0 X RN55D-F10	1	R13
38	38	1303312-00	10.0 K .25 W 1.0 X RN55D-F10	1	R10
39	39	1305122-00	51.10 .25 W 1.0 X RN55D-F10	1	R11, R21
40	40	1305125-00	619.0 .25 W 1.0 X RN55D-F10	1	R17
41	41	1309413-00	3.83 K .25 W 1.0 X RN55D-F10	1	R26
42	42	1310534-00	2.67 K .25 W 1.0 X RN55D-F10	1	R27
43	43	1503409-01	DEC65348 PNP 310MW SI 40 90 P	1	G3, R1, R2
44	44	1513489-00	2N 4401 PNP 350MW SI-40 90	1	G1, R2
45	45	1513490-00	2N 4403 PNP 350MW SI-40 90	1	G1, R3
46	46	1603359-00	12.0 UH 10% 300MA 80012.0	2	G2, G3
47	47	1616553-00	DELAY= 20NS, 10TAPS WITH TTLBU	1	E110
48	48	1616553-01	DELAY= 100NS, 10TAPS WITH TTLBU	1	E55, E103
49	49	1811660-00	OSCILLATOR, XTHL 8.200 MHZ	1	E111, E123
50	50	1910532-00	74500 NAND GATE-QUAD 2IN	2	E112, E113
51	51	1910534-00	74504 INVERTER GATE-HEX 11	3	E114, E115, E123
52	52	1910536-00	74510 NAND GATE-TRIPLE 3IN	1	E116, E117, E118, E119, E120, E121, E122
53	53	1910542-00	74554 A-0-I GATE 4-2-3-2	2	E124, E125, E126, E127, E131, E132, E133
54	54	1910544-00	74554 FF-D DUAL, EDGE TRIGG	4	E128, E129, E130, E131, E132, E133
55	55	1910549-00	745159 MUX 1 OF 2 (QUAD)	1	E134, E135
56	56	1910550-00	745174 FF-D HEX	1	E136, E137
57	57	1910552-00	745154 SHIFT REG. 4BIT RIGH	1	E138, E139
58	58	1910957-00	745175 FF-D QUAD COMMON CLO	1	E140, E141
59	59	1911341-00	75113 DRIVER, LINE, DUAL, MA	8	E21, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33
60	60	1911579-00	3641 TRANSCEIVER, BUS, QUA	1	E34, E35
61	61	1911675-00	745139 DECODER/DEMIX 3-8 LIN	1	E36, E37, E38
62	62	1911712-00	74551 AND-OR GATE-INVERT D	1	E39, E40
63	63	1911911-00	DEC 745124 OSCILLATOR, DUAL VOLT	1	E41, E42
64	64	1912399-00	74502 NOR GATE-QUAD 2IN, PO	1	E43, E44
65	65	1912389-00	74508 AND GATE-QUAD 2IN, PO	1	E45, E46
66	66	1912535-00	DEC 7305 VOLT REG, FIX +5V	1	E47, E48
67	67	1912547-00	LS257 MUX 1 OF 2 (QUAD)	2	E49, E50
68	68	1912728-00	745251 MUX 1 OF 8 TRI-STA	3	E51, E52
69	69	1912746-00	DEC 74537 NAND GATE-QUAD 2IN	1	E53, E54, E135
70	70	1912637-00	LS123 ONE SHOT-DUAL RETRIG	1	E55, E56
71	71	1912947-00	LS157 MUX 1 OF 2 (QUAD)	1	E57, E58
72	72	1912972-00	LS377 FF-D 8BIT W/ENABLE	1	E59, E60
73	73				

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TITLE

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SECTION A OF A

ISIZE:CODE: DOCUMENT NUMBER: REV:  
K PL M388-0-03 3

AUTOMATED BY PRTLST.3P(44)

## PARTS LIST

SHEET A3 OF A3

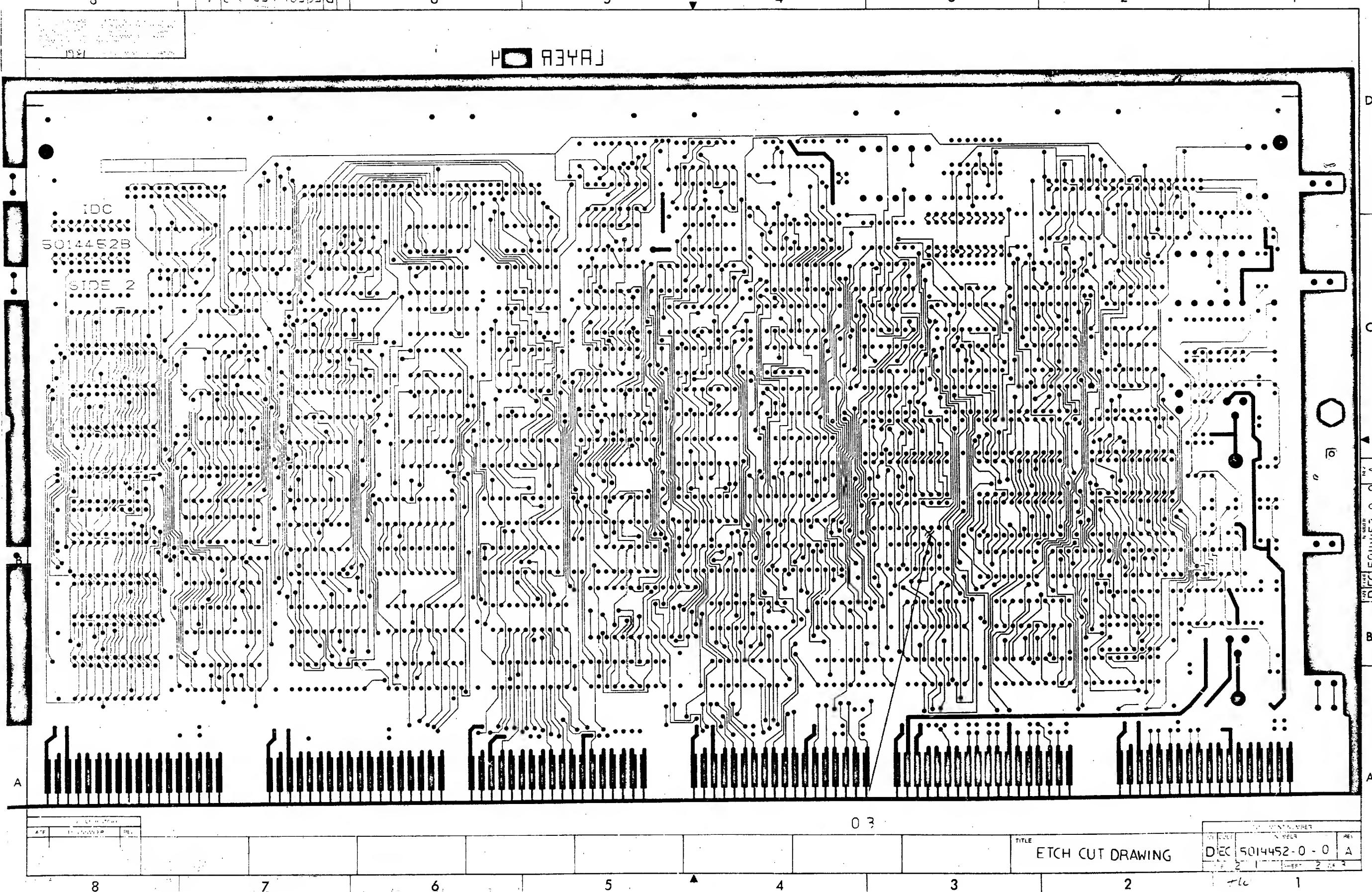
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
73	74	1912951-00	DM 8556 COUNTER, BINARY 4BIT	5	E18, E19, E29-E30
74	75	1913017-00	3046 XSISTOR ARRAY 3 ISOL	1	E134
75	76	1913571-00	745374 FF-D OCTAL TRISTATE	8	E13-E15, E27, E36, E37, E56, E59
76	77	1913777-00	LS240 DRIVER, LINE OCTAL T	1	E50
77	78	1913838-00	102A EQUALS CHECKER 9BIT	1	E104
78	79	1914052-00	745163 COUNTER, SYNCH UP/DOWN	2	E116, E124
79	80	1914437-00	7905 VOLT REG, FIX -5V	1	Q5
80	81	1914972-00	3450 RECEIVER LINE, QUAD,	6	E34, E45, E55, E78, E91, E121
81	82	1915101-00	0C907 ECC CHIP 28PIN	1	E57
82	83	1915193-00	LS244 DRIVER, LINE, OCTAL T	4	E48, E80, E82, E103
83	84	1915218-00	LS245 TRANSCEIVER BUS OCT	4	E26, E46, E47, E53
84	85	1915597-00	RAM 256X4 TRI-STATE	8	E1-E4, E7-E10
85	86	23035K5-00	K5-01	1	E39
86	87	23060K5-00	K5-01	1	E38
87	88	23081K4-00	K4-01	1	E6
88	89	23081K5-00	K5-01	1	E17
89	90	23081K5-00	K4-01	1	E59
90	91	23081K5-00	K4-01	1	E61
91	92	23081K5-00	G2-01	1	E127
92	93	23081K5-00	D2-01	1	E107
93	94	23081K5-00	D2-01	1	E106
94	95	23081K5-00	K4-01	1	E123
95	96	23081K5-00	D2-01	1	E105
96	97	23081K5-00	K4-01	1	E32
97	98	23081K5-00	D2-01	1	E89
98	99	23081K5-00	K4-01	1	E123
99	100	23081K5-00	D2-01	1	E97
100	101	23081K5-00	D2-01	1	E126
101	102	23081K5-00	K3-01	1	E5
102	103	23081K5-00	K3-01	1	E89
103	104	23081K5-00	K3-01	1	E90
104	105	23081K5-00	K3-01	1	E76
105	106	23081K5-00	J5-01	1	E49
106	107	23081K5-00	J5-01	1	E31
107	108	23081K5-00	J5-01	1	E16
108	109	23081K5-00	K3-01	1	E95
109	110	23081K5-00	K3-01	1	E88
110	111	23081K5-00	J5-01	1	E33
111	112	23081K5-00	NUT, HEX 4-40X1/4 AF X 3/	2	
112	113	9005555-00	SCREW, PAN, PHIL 4-40X 1/4 SS	2	
113	114	9009301-00	EYELET, ROLLED 0.12100X0.155	12	
114	115	9009300-00	PIN, STAKING, P.C. BOARD 0.025 X	3	TPI-TP3
115	116	9009149-00	WIRE(WRAP)30AWG 0.1423 A/R		
116	117	9105740-55	TUBING, THIN WALL, 042ID UL		R72
117	118	9107278-11	220.0 .25 W 5.0 % CC	1	
118	119	1300271-00	75114 LINE DRIVER, DUAL DIF	3	E24, E25, E54
119	119	1919765-01			

0 I G I T A L TITLE  
I D C

SECTION A OF A

SIZE:CODE: DOCUMENT NUMBER: REV:  
K PL M3398-3-03P 3





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7 0-0-2545105 DEC 0

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1988 DIGITAL EQUIPMENT CORPORATION

REWORK INSTRUCTIONS:

ETCH CUT SIDE 1:

0-1 AT E95-4 0-2 REMOVE "+" SIGNS

ETCH CUT SIDE 2:

0-3 AT E95-4

DOC CODE DEC5014452 0 DA

REVISION HISTORY		
DATE	ECN NUMBER	REV.

000 1376

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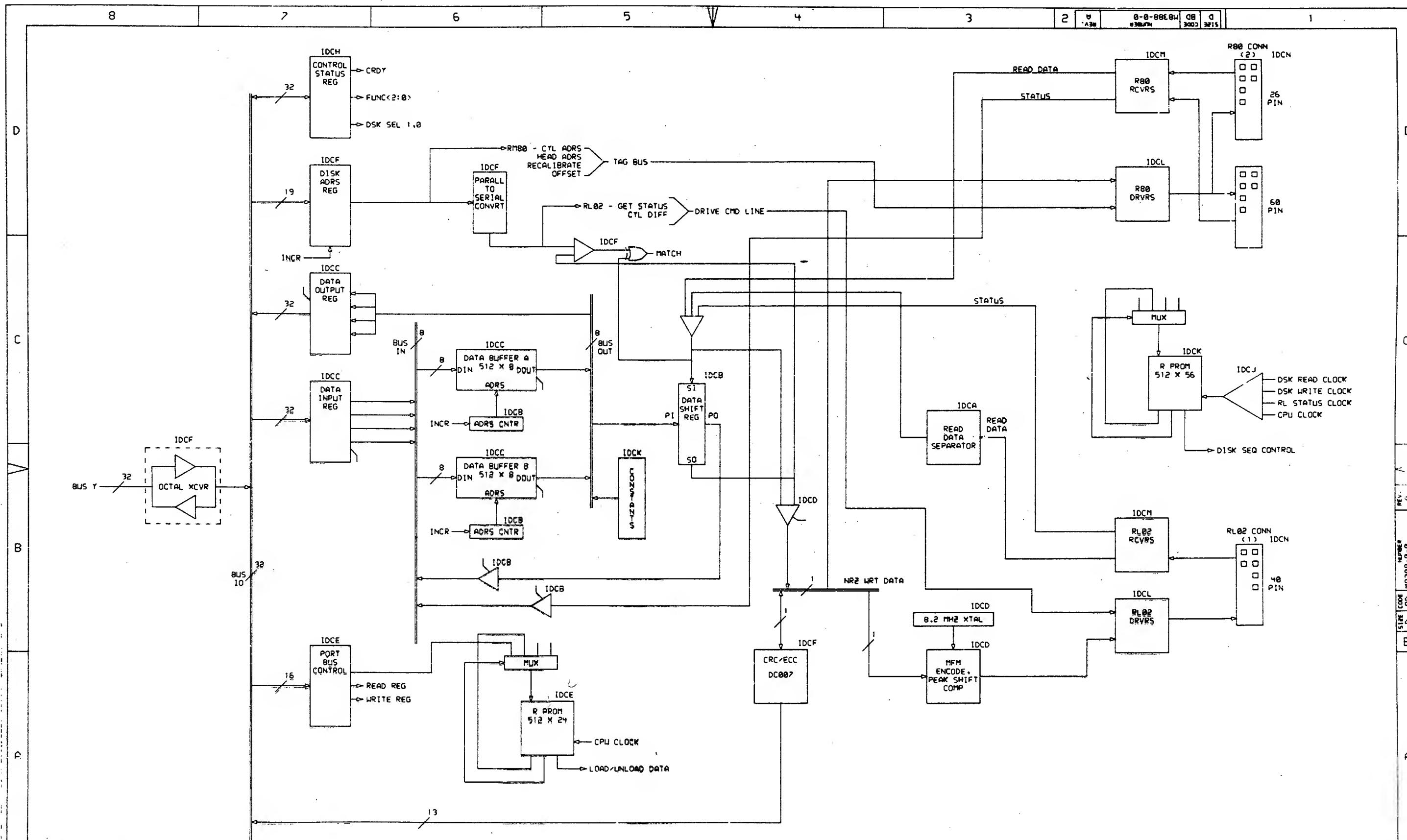
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TITLE  
ETCH CUT DRAWING

DOCUMENT NUMBER  
DOC CODE NUMBER REV.  
DEC 5014452-0-0 A  
SCALE NONE SHEET 3 OF 3

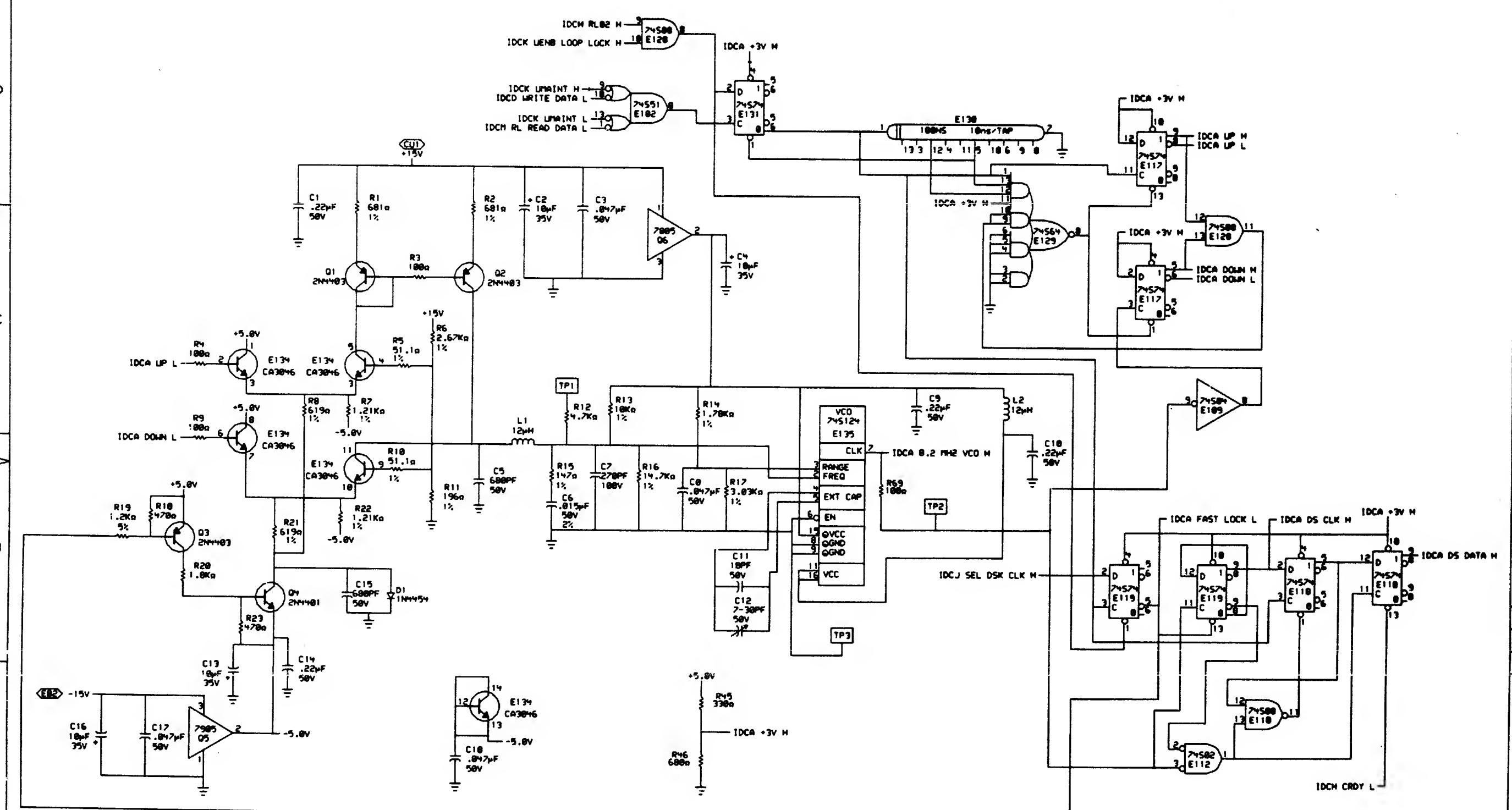
7W



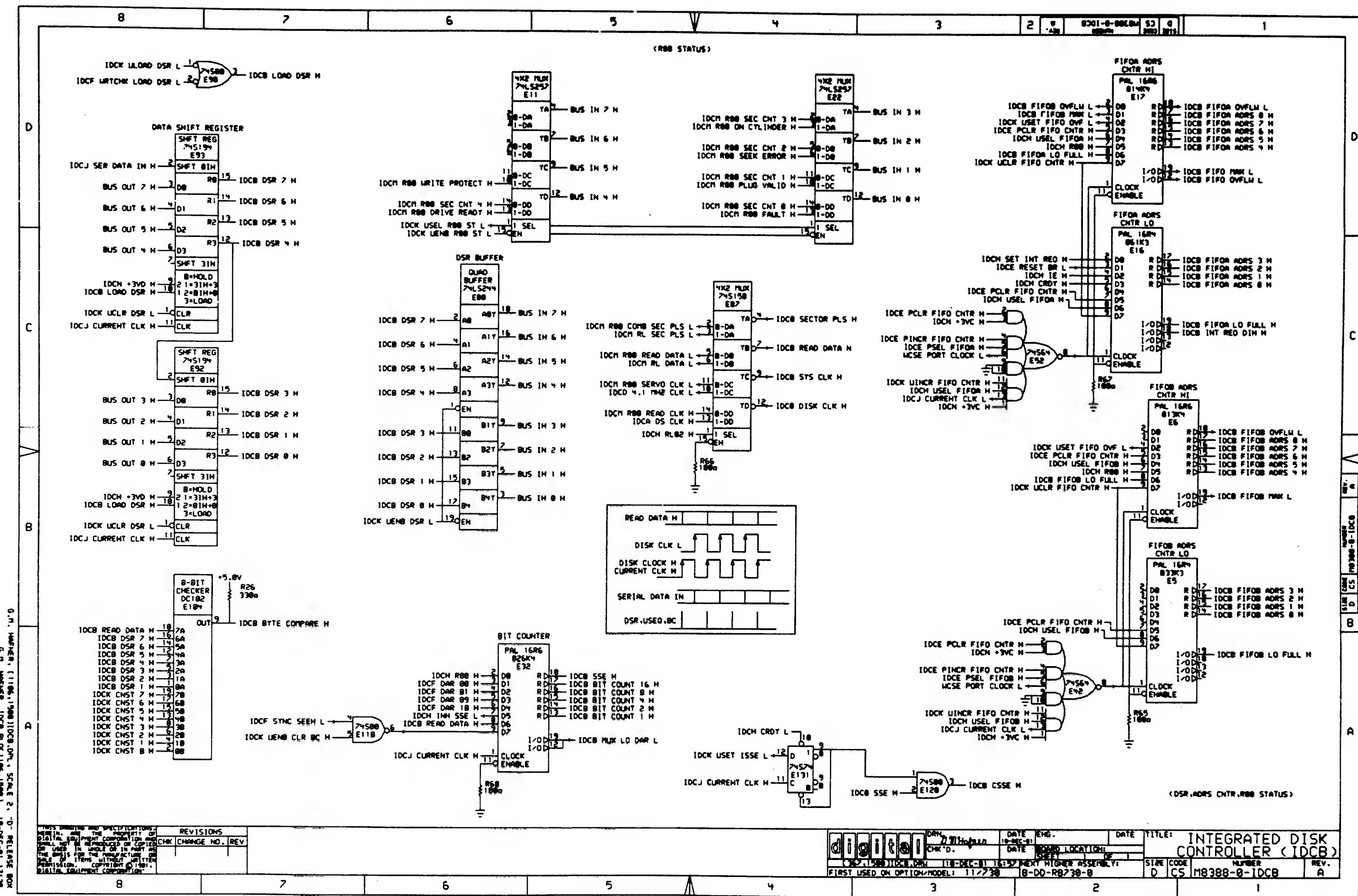
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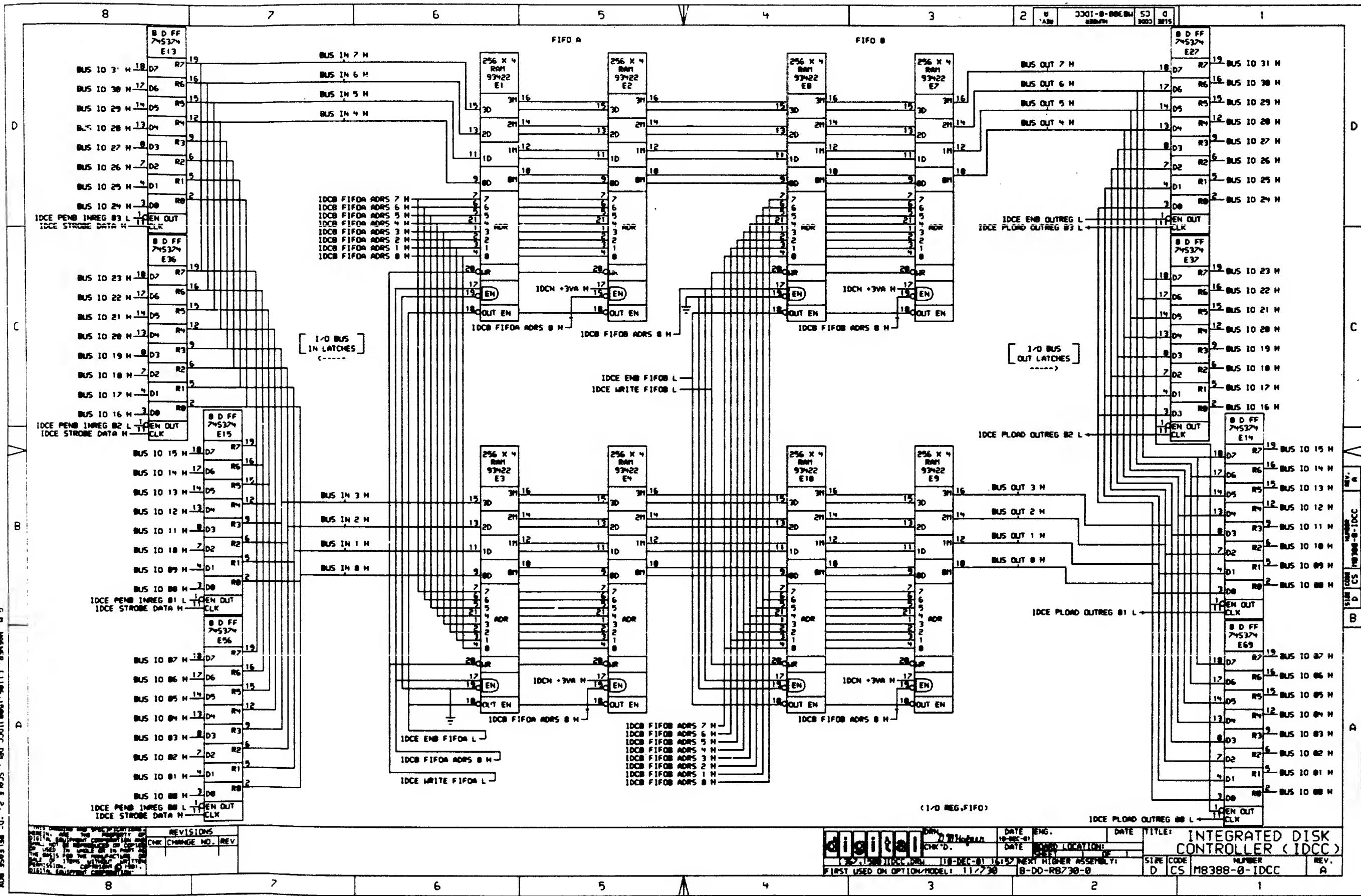
REVISIONS	
CHK	CHANGE NO.
1	1

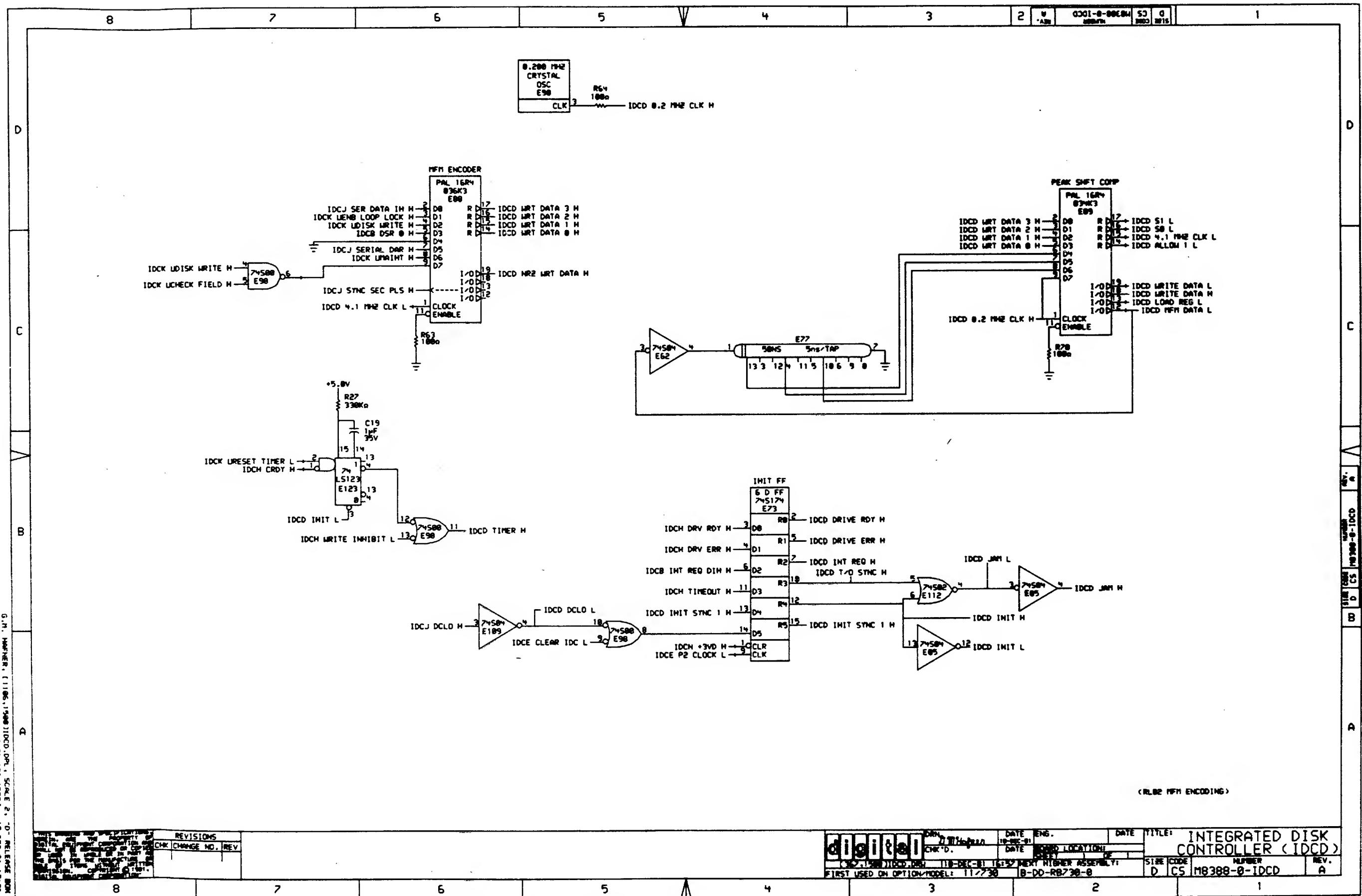
d i g i t a l	DRN	DATE	ENG.	DATE	TITLE: INTEGRATED		
	971Hofner	22-DEC-81			DISK CONTROLLER		
CHK'D.	DATE	BOARD LOCATION:		SHEET	OF	1	
[ 36°, 150° ] DCBLK.DRW		18-DEC-81 15:27		NEXT HIGHER ASSEMBLY:			REV.
FIRST USED ON OPTION MODEL: NEBULA		B- DD-RB738-B		M8388-0-0		A	

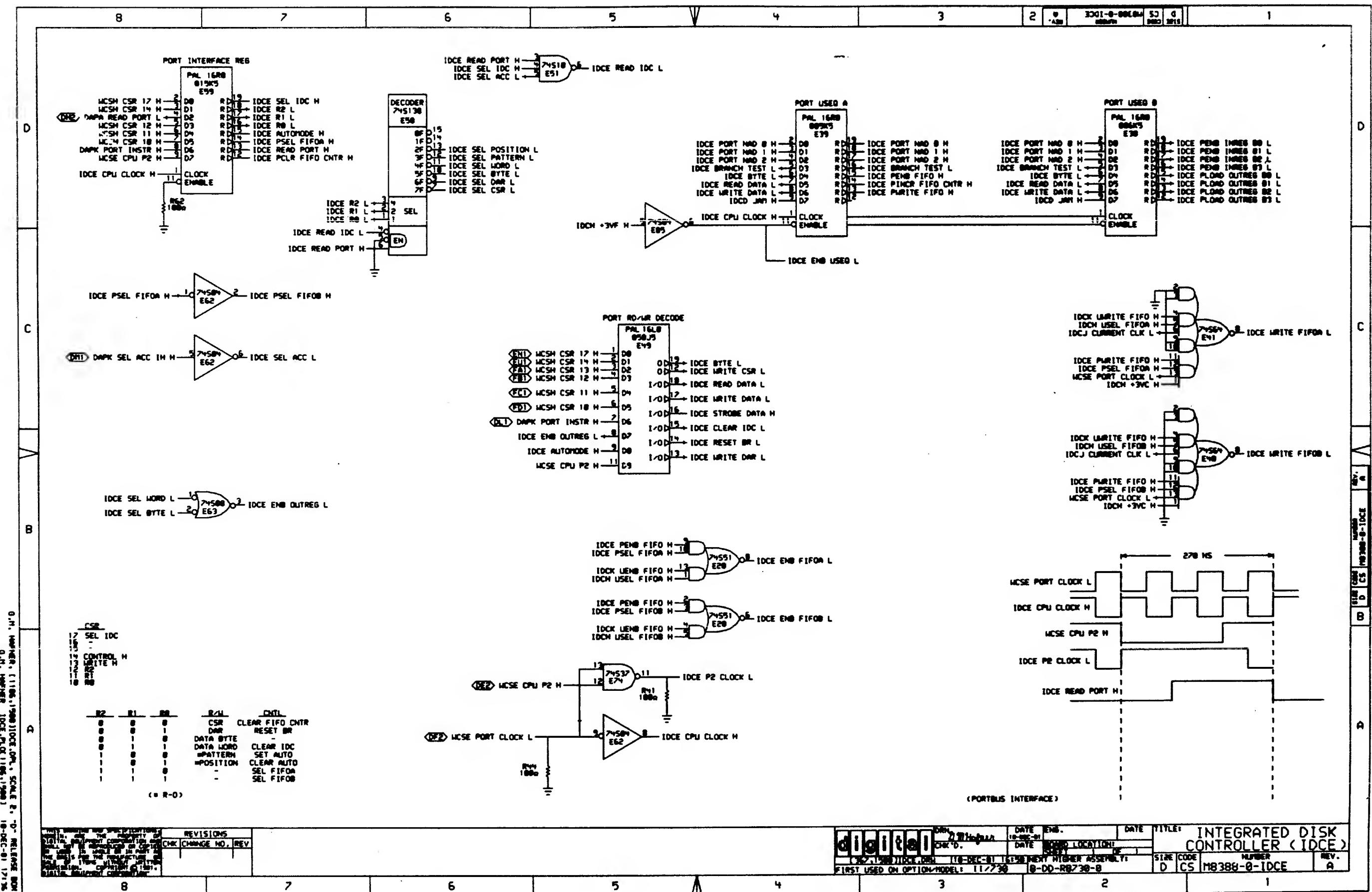


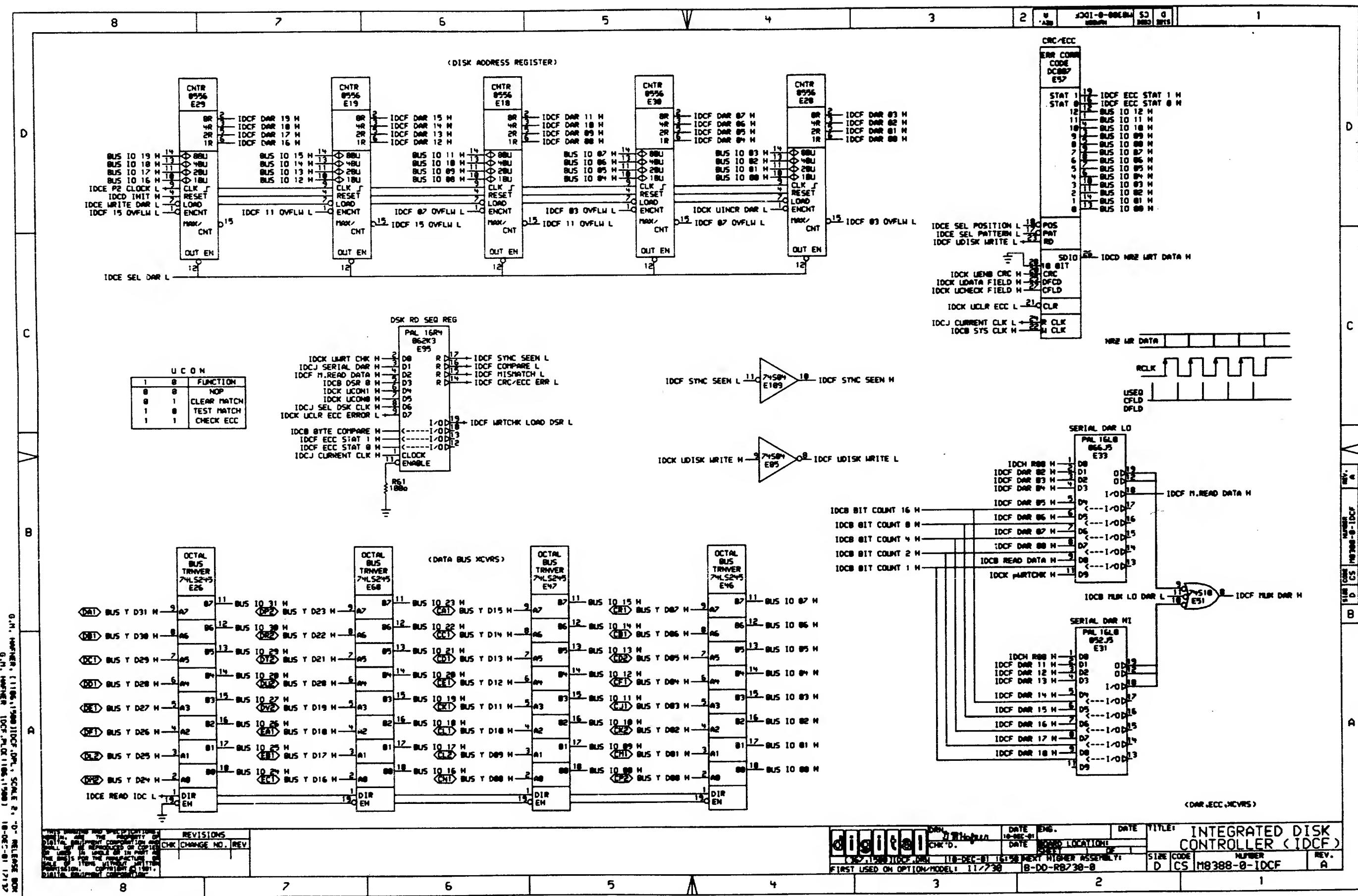
(RL82 DATA SEPARATOR)

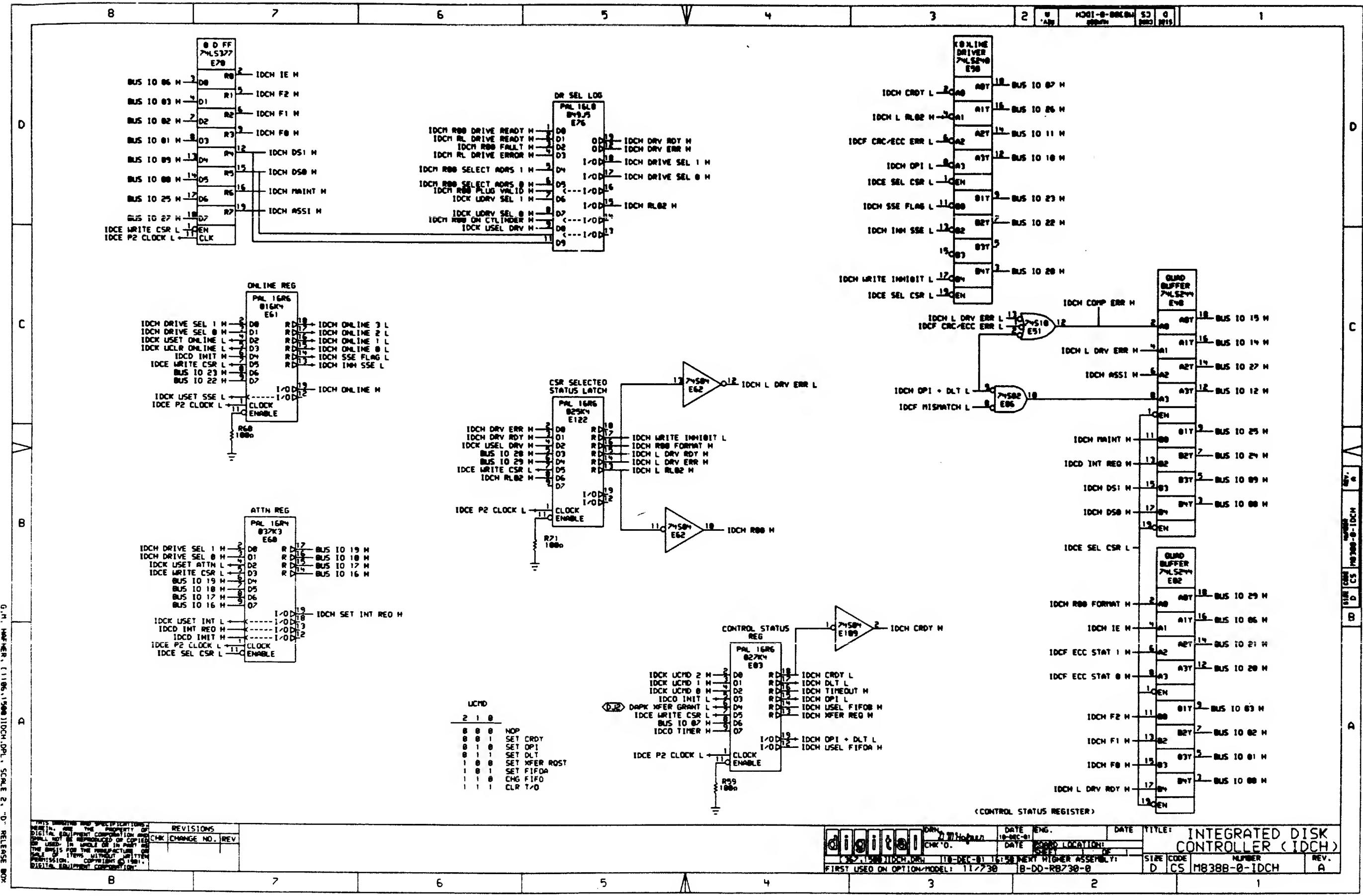


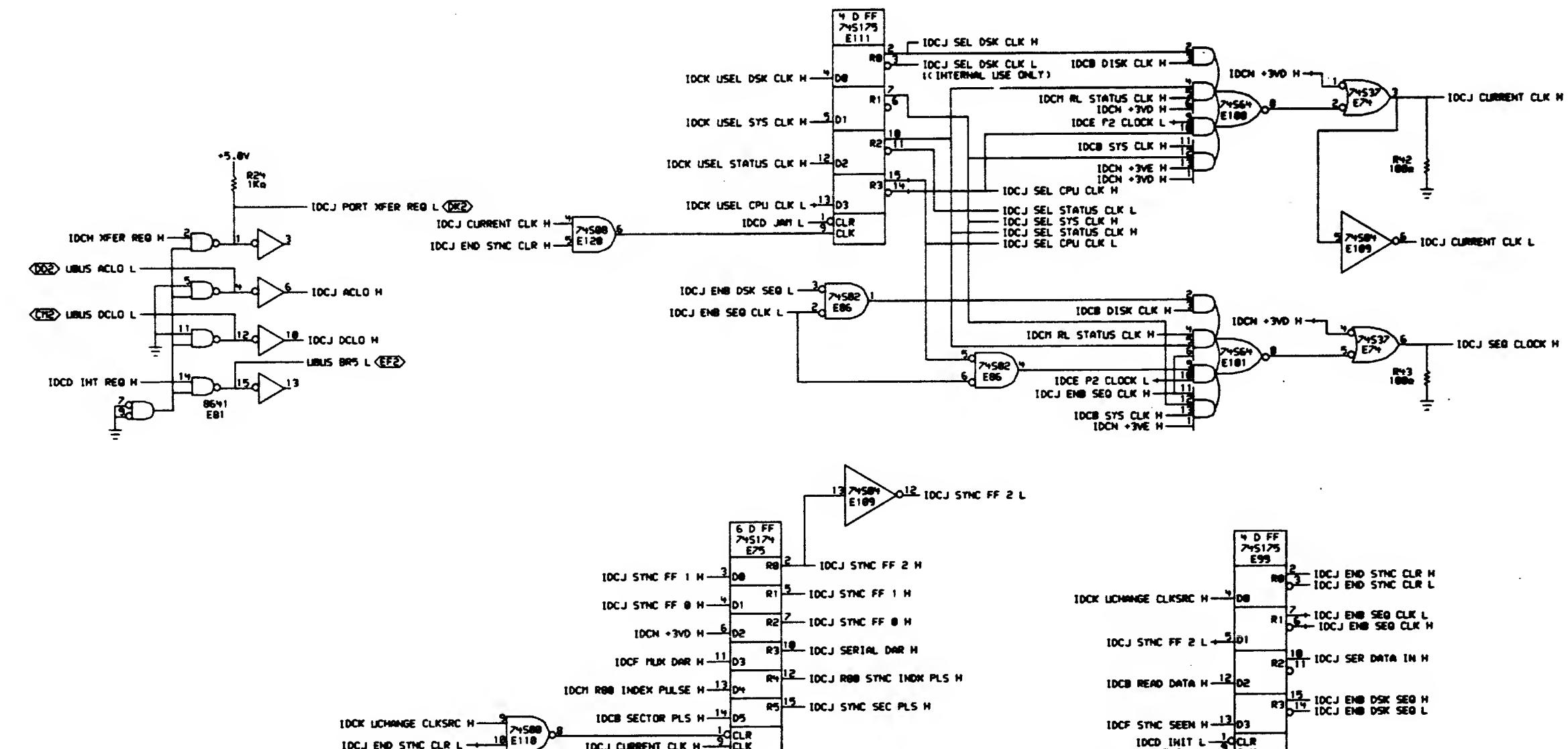








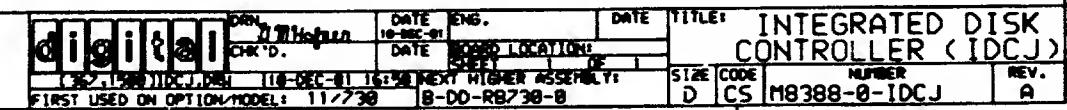


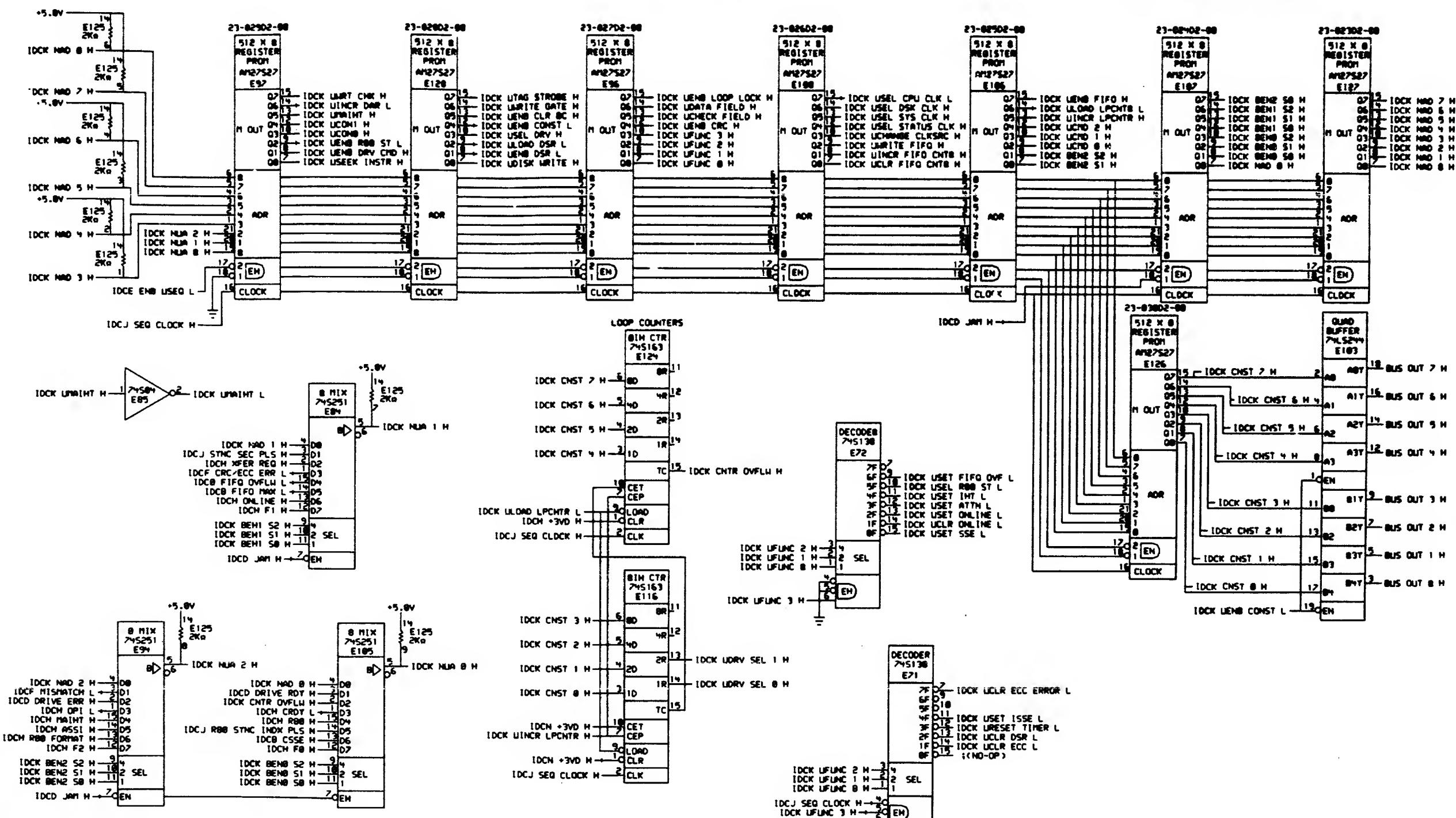


### (CLOCK SYNC & INTERRUPT)

G.M. HAFNER 1106-19001DCJ.DET. SCALE 2 "D" RELEASE DOM  
G.M. HAFNER 1DCJ.PLX 1106-19001 10-DEC-81 1732

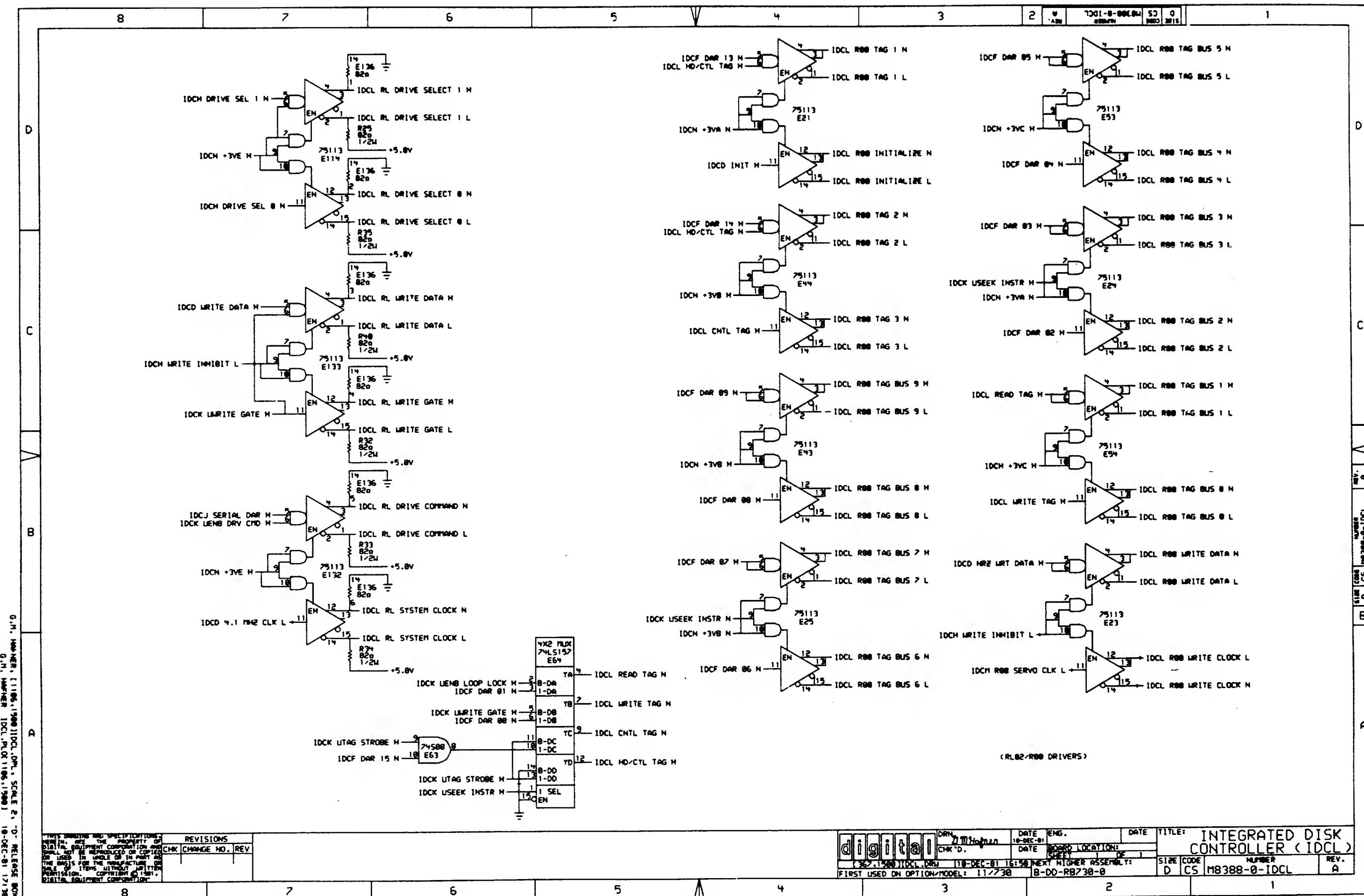
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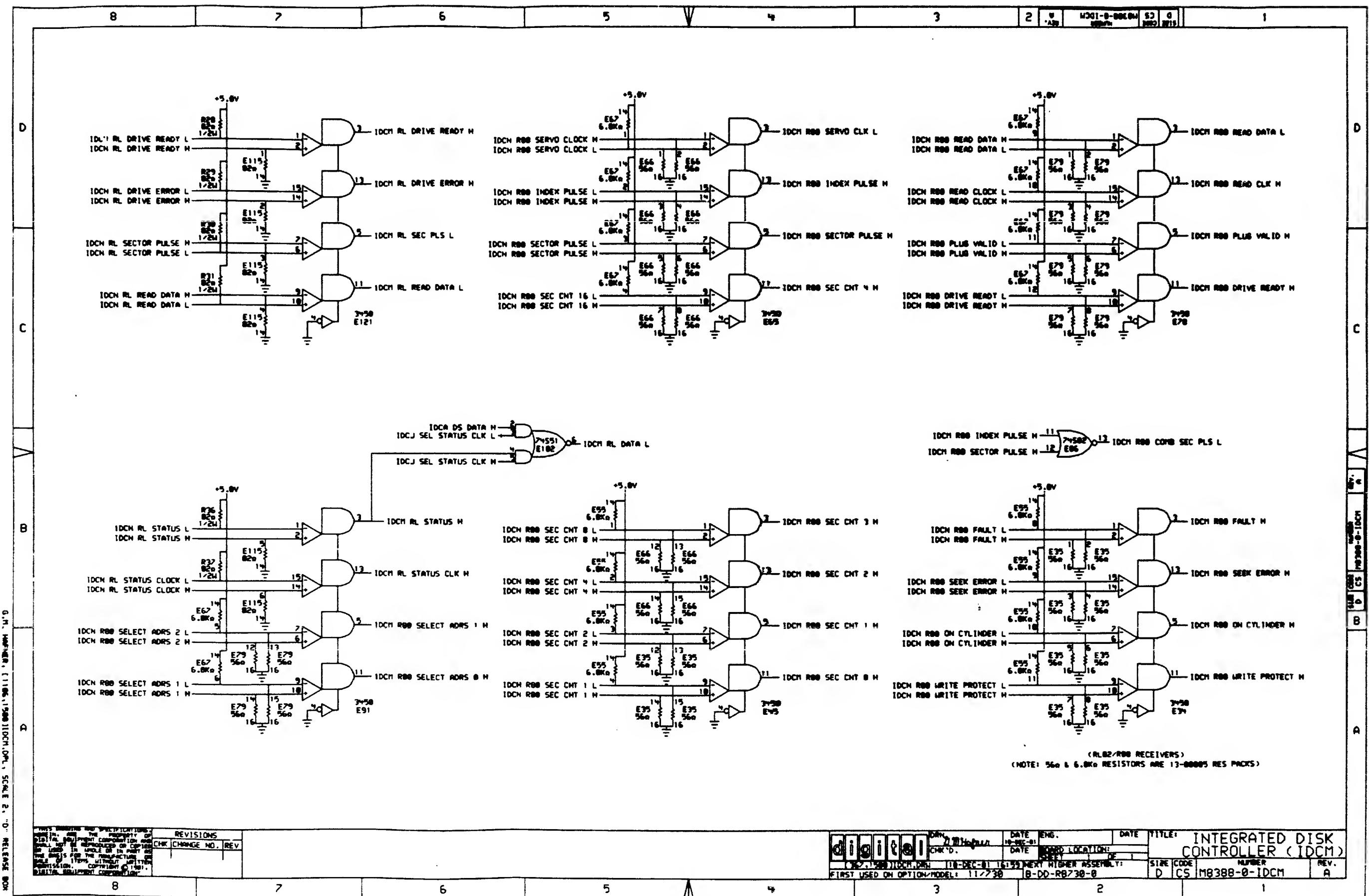


### ( MICROSEQUENCER )

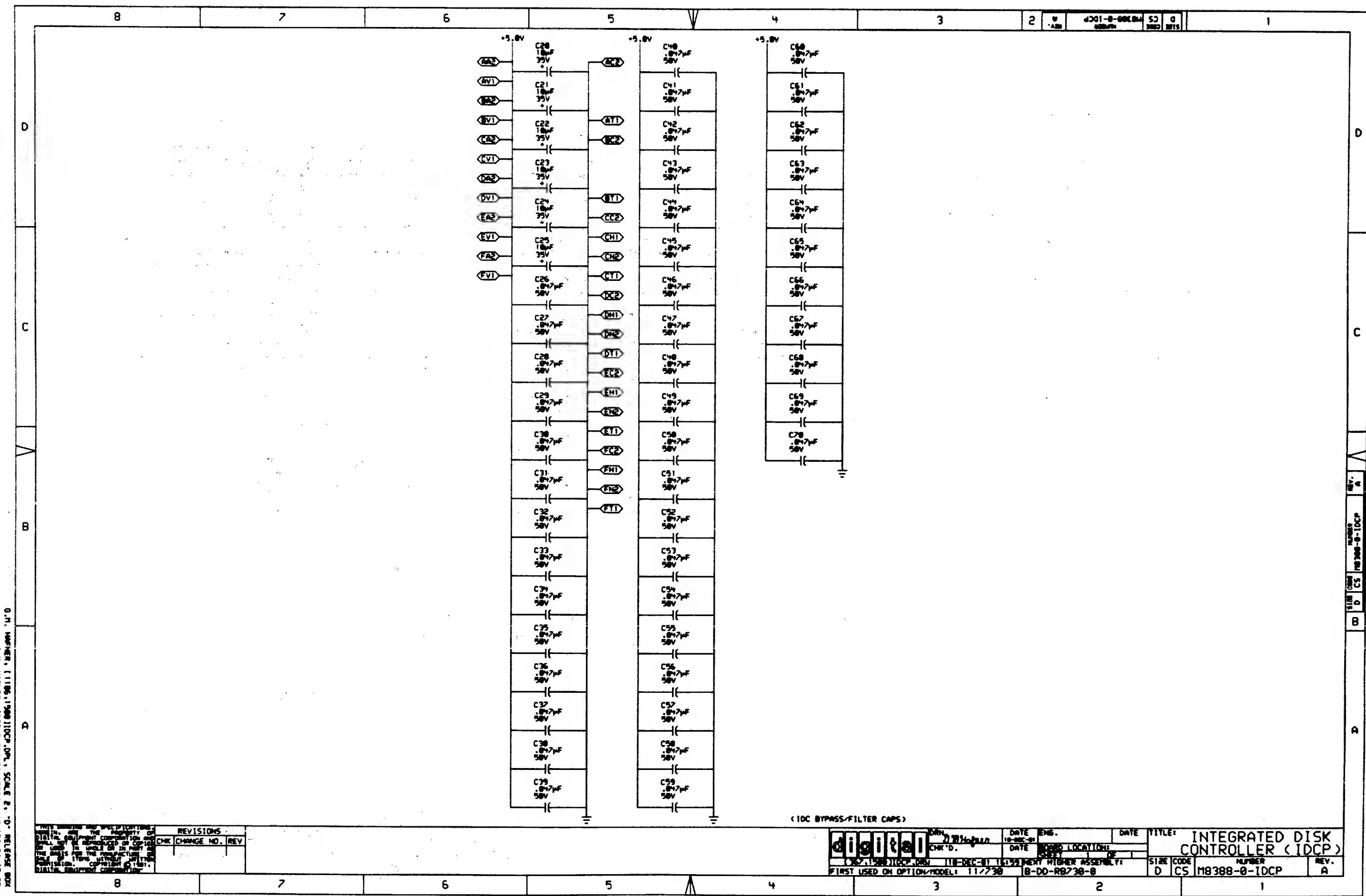
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							CHK'D.	DATE	BOARD LOCATION: SHEET 1 OF 1				
							(357.1560) DCK.DRW	10-DEC-81 16:50	NEXT HIGHER ASSEMBLY:	SIZE D	CODE CS	NUMBER M8388-0-IDCK	REV. A
							FIRST USED ON OPTION/MODEL: 11/730	B-00-RB730-0					

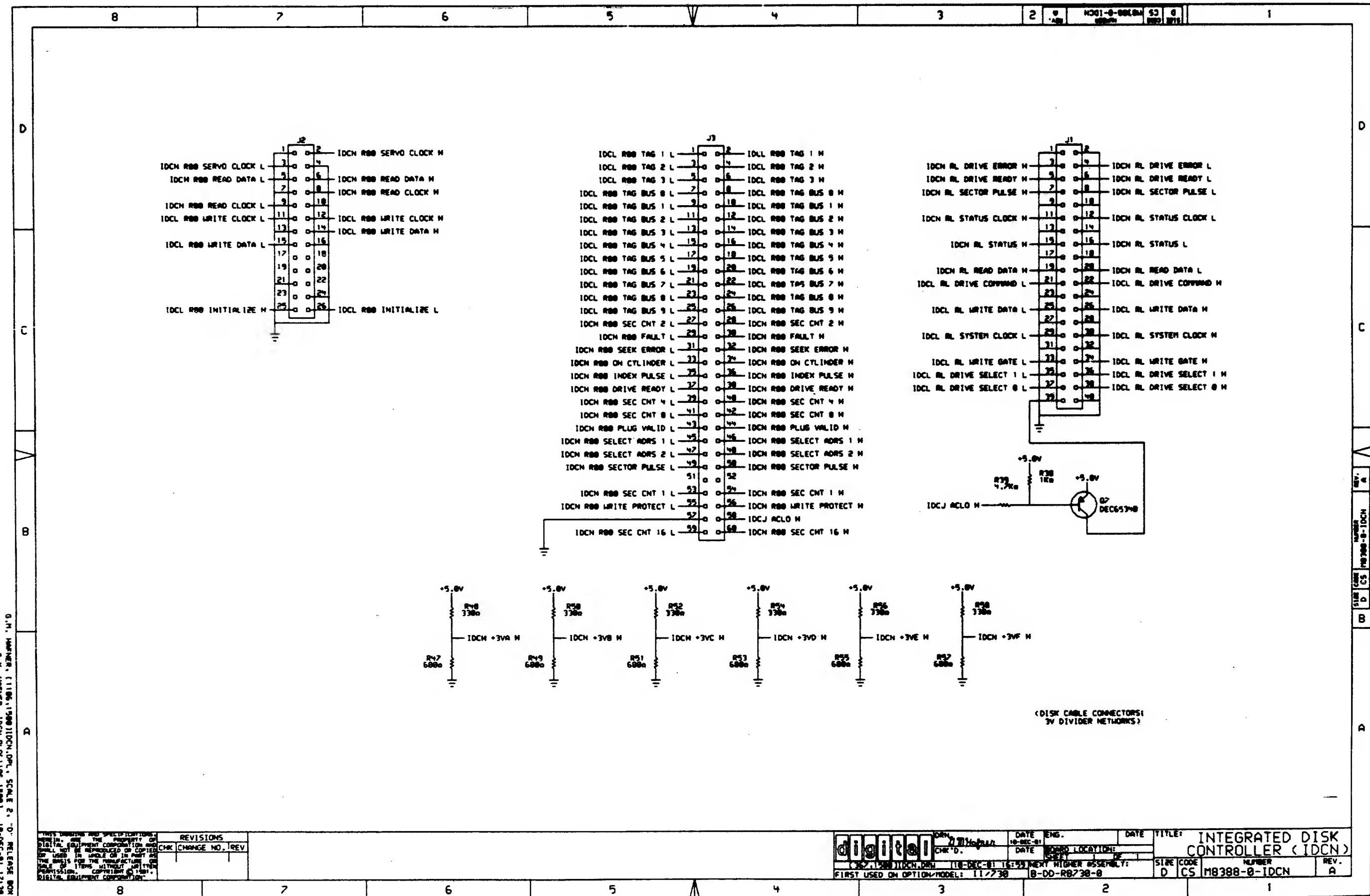


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G.M. HAFNER, 1106-1588 11DCN.DPL, SCALE 2, "D" RELEASE BOX  
G.M. HAFNER 11DCN.PLO 1106-1588 18-DEC-81 12178

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TECH. INC.  
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ENG.  
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FEB 1964  
SHEET  
NEXT HIGHER  
B-00-RB71

EX-101  
1 OF  
1 ASSEMBLY:  
30-0

DATE	TITLE
	SIZE
	D

INT  
CONT  
CODE  
CS M83

INTEGRATED  
ROLLER  
NUMBER  
88-0-ID

ED DIS  
R C IDO

5K  
CN)  
REV.  
A



DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION							
PARTS LIST										
MADE BY DATE 2 JUN 76 ENG Tolman	CHECKED DATE 2 JUN 76 PROD R. J. Smith	SECTION ISSUED SECT.								
DATE 12 APR 77	DATE 12 APR 77	1								
ITEM NO.	DWG NO./PART NO.	DESCRIPTION								
1	1212691-00	PLUG, UNIT SELECT (0)	1							
2	1212691-01	PLUG, UNIT SELECT (1)	1							
3	1212691-02	PLUG, UNIT SELECT (2)	1							
4	1212691-03	PLUG, UNIT SELECT (3)	1							
NOTE: THE ABOVE ITEMS SHALL BE BAGGED TOGETHER TO FORM A KIT										
TITLE UNIT SELECT PLUG KIT			ASSY NO.	SIZE CODE	NUMBER			REV.	ECO NO.	
			55	A PL	7012938-0-0			*		
SHEET 1 OF 1			DIST.							
DEC FORM DEC 16 (325)-1031-N870 DRA 110										